

Doramectin Formulation

Version 6.0	Revision Date: 06.07.2024		S Number: 1220-00014	Date of last issue: 06.04.2024 Date of first issue: 22.10.2019
Section 1:	Identification			
Produ	uct identifier	:	Doramectin Form	nulation
Reco	mmended use of the ch	nemi	ical and restriction	ons on use
	nmended use ctions on use	:	Veterinary produce Not applicable	ct
Manu	facturer or supplier's d	letai	ls	
Comp	any	:	MSD	
Addre	SS	:	50 Tuas West Dr Singapore - Sing	
Telepl	hone	:	+1-908-740-4000)
Emerç	gency telephone number	:	65 6697 2111 (24/7/365)	
E-mai	l address	:	EHSDATASTEWARD@msd.com	
Section 2:	Hazard identification			
Class	ification of the substar	nce	or mixture	
Repro	ductive toxicity	:	Category 1B	
	fic target organ toxicity - exposure (Oral)	:	Category 2 (Cent	tral nervous system)
	fic target organ toxicity - ted exposure (Oral)	:	Category 2 (Cent	tral nervous system, Liver, Kidney)
Short- hazar	term (acute) aquatic d	:	Category 1	

GHS Label elements, including precautionary statements

Long-term (chronic) aquatic : Category 1

hazard

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H360D May damage the unborn child. H371 May cause damage to organs (Central nervous system) if





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Preca	utionary statements	Liver, Kidney) lowed. H410 Very toxi Prevention: P201 Obtain sp P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P273 Avoid rel P280 Wear pro	se damage to organs (Central nervous system, through prolonged or repeated exposure if swal- ic to aquatic life with long lasting effects. pecial instructions before use. andle until all safety precautions have been read d. reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. ease to the environment. otective gloves/ protective clothing/ eye protec- ection/ hearing protection.
		Response: P308 + P311 I CENTER/ doct P391 Collect s	
		Storage:	
		P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
	hazards which do n known.	ot result in classifica	tion
Section 3:	Composition/inform	ation on ingredients	
	ance / Mixture	: Mixture	

Chemical nameCAS-No.Concentration (% w/w)Doramectin117704-25-3>= 1 -< 2.5</td>

Section 4: First-aid measures

Description of necessary first-aid measures				
General advice	: In the case of accident or if you feel unwell, seek medical ad- vice immediately.			
	When symptoms persist or in all cases of doubt seek medical advice.			
If inhaled	: If inhaled, remove to fresh air. Get medical attention.			
In case of skin contact	: In case of contact, immediately flush skin with soap and plenty			



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		of water.		
			aminated clothing and shoes.	
		Get medical a		
) before reuse. ean shoes before reuse.	
In case	e of eye contact	: Flush eyes wi	th water as a precaution.	
If swal	lowed		ttention if irritation develops and persists. DO NOT induce vomiting.	
11 5 Wai	lowed	Get medical a	3	
			horoughly with water.	
		Never give an	ything by mouth to an unconscious person.	
Most i	mportant symptoms a	and effects, both a	acute and delayed	
Risks			the unborn child.	
			mage to organs if swallowed. mage to organs through prolonged or repeate	
		exposure if sw	vallowed.	
Protection of first-aiders		: First Aid responders should pay attention to self-protect and use the recommended personal protective equipme when the potential for exposure exists (see section 8).		
Indica	tion of any immediate		n and special treatment needed	
Treatn	•		natically and supportively.	
ection 5:	Fire-fighting measure	s		
		•		
Exting	uishing media			
Suitab	le extinguishing media	: Water spray		
		Alcohol-resist		
		Carbon dioxid Dry chemical		
Unsuit	able extinguishing	: None known.		

Special hazards arising from the substance or mixture

Specific hazards during fire-	:	Exposure to combustion products may be a hazard to health.
fighting Hazardous combustion prod- ucts	:	Carbon oxides

Special protective actions for fire-fighters

media

Special protective equipment : for firefighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- : ods	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.



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Section 6: Accidental release measures

Personal precautions, protective eq Personal precautions :	uipment and emergency procedures Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containn Methods for cleaning up :	nent and cleaning up Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- ming which regulations applicable

mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7: Handling and storage

Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
-		Do not breathe mist or vapours.
		Do not swallow.
		Avoid contact with eyes.
		Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure as- sessment
		Keep container tightly closed.
		Do not eat, drink or smoke when using this product.
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye





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		flushing systems and safety showers close to the work place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include revi engineering controls, proper personal protective equip appropriate degowning and decontamination procedur industrial hygiene monitoring, medical surveillance and use of administrative controls.		
Cond	ditions for safe storage	e, including any inco	ompatibilities	
	litions for safe storage rials to avoid	Store locked up Keep tightly clo Store in accord	sed. ance with the particular national regulations. th the following product types:	
			gagono	

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Doramectin	117704-25-3	TWA	25 µg/m3 (OEB 3)	Internal
	Further information: Skin			
		Wipe limit	250 µg/100 cm2	Internal

Appropriate engineering : control measures	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Individual protection measures	s, such as personal protective equipment (PPE)
Eye/face protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or

Skin protection : Work uniform or laboratory coat.

aerosols.

Relative density



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	Filte	atory protection or type rotection	:	task being perform posable suits) to a Use appropriate of contaminated clot If adequate local sure assessment	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially hing. exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection.
	Mate	erial	:	Chemical-resistar	it gloves
	Rem	narks	:	Consider double (gloving.
Sect	tion 9: F	Physical and chemica	l pr	operties	
	Appear	ance	:	oily	
	Colour		:	light yellow	
	Odour		:	: characteristic	
	Odour Threshold		:	No data available	9
	рН		:	No data available	9
	Melting	point/freezing point	:	-7 °C	
	Initial b range	oiling point and boiling	:	270 °C	
	Flash p	oint	:	215.7 °C	
	Evapor	ation rate	:	No data available	2
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	

: 0.89 - 91



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Densi	ty	:	No data availabl	e
	ility(ies) ater solubility	:	practically insolu	ble
	on coefficient: n- bl/water	:	Not applicable	
	gnition temperature	:	No data availabl	e
Decor	nposition temperature	:	No data availabl	e
Viscos Vis	sity cosity, kinematic	:	31.7 - 32.1 m2/s	(25 °C)
Explo	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance of	r mixture is not classified as oxidizing.
Molec	ular weight	:	No data availabl	e
	le characteristics le size	:	Not applicable	

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg
		Method: Calculation method



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	Compo	onents:			
	Doram	ectin:			
	Acute o	oral toxicity	:	LD50 (Rat): 500 n Target Organs: Co	ng/kg entral nervous system
				LD50 (Mouse): > 2 Target Organs: Co	2,000 mg/kg entral nervous system
				LD50 (Rat): 50 m Target Organs: C	g/kg entral nervous system
				LD50 (Mouse): 75 Target Organs: Co	5 mg/kg entral nervous system
		oxicity (other routes of stration)	:	LD50 (Rat): > 300 Application Route Target Organs: Co	
		orrosion/irritation ssified based on availa	ble	information.	
		s eye damage/eye irri ssified based on availa			
	Respir	atory or skin sensitis	atio	n	
		ensitisation ssified based on availa	ble	information.	
	-	atory sensitisation ssified based on availa	ble	information.	
		cell mutagenicity ssified based on availa	ble	information.	
	Compo	onents:			
	Doram	ectin:			
	Genoto	oxicity in vitro	:	Test Type: Ames Result: negative	test
				Test Type: Mouse Result: negative	e Lymphoma
				Test Type: unsche Result: negative	eduled DNA synthesis assay
	Genoto	oxicity in vivo	:	Test Type: Micron Species: Mouse Result: negative	nucleus test
	Germ o	cell mutagenicity -	:	Weight of evidence	e does not support classification as a germ



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ersion)	Revision Date: 06.07.2024		OS Number: 91220-00014	Date of last issue: 06.04.2024 Date of first issue: 22.10.2019
Asses	ssment		cell mutagen.	
	nogenicity assified based on avail	lable	information.	
Comp	oonents:			
	nectin: nogenicity - Assess-	:	Weight of eviden cinogen	ce does not support classification as a car-
-	oductive toxicity lamage the unborn chil	ld.		
Comp	oonents:			
Dorar	nectin:			
Effect ment	s on foetal develop-	:	Species: Rat Application Route Embryo-foetal to: Symptoms: Redu	<pre>kicity: NOAEL: 0.3 mg/kg body weight</pre>
			Species: Mouse Application Route	e: Oral kicity: NOAEL: 3 mg/kg body weight
			Species: Rabbit Application Route General Toxicity	yo-foetal development e: Oral Maternal: NOAEL: 0.75 mg/kg body weight rnal effects, Embryotoxic effects.
Repro sessn	oductive toxicity - As- nent	:	Clear evidence o animal experime	f adverse effects on development, based on hts.
	- single exposure ause damage to organ	ıs (Ce	entral nervous svs	em) if swallowed.
	oonents:	(
	nectin:			
Expos Targe	sure routes at Organs ssment	:		system e significant health effects in animals at con-) mg/kg bw or less.



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STOT - repeated exposure

May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure if swallowed.

Components:

Doramectin:

Exposure routes	:	Oral
Target Organs	:	Central nervous system, Liver, Kidney
Assessment	:	Shown to produce significant health effects in animals at con-
		centrations of 10 mg/kg bw or less.

Repeated dose toxicity

Components:

Doramectin:

Species:LOAEL:Application Route:Exposure time:Target Organs:	Rat 30 mg/kg Oral 3 Months Central nervous system
Species:NOAEL:Application Route:Exposure time:Target Organs:	Rat 2 mg/kg Oral 3 Months Central nervous system, Liver, Kidney
Species:NOAEL:Application Route:Exposure time:Target Organs:Symptoms:	Dog 2 mg/kg Oral 36 d Eye Dilatation of the pupil
Species:NOAEL:Application Route:Exposure time:Target Organs:Symptoms:	Dog 0.1 mg/kg Oral 92 d Central nervous system, Eye Dilatation of the pupil

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Doramectin:

Skin contact

: Target Organs: Gastro-intestinal system



Symptoms: Nausea, Diarthoea Target Organs: Central nervous system Symptoms: Dizziness, Headache Target Organs: Skin Symptoms: Initiation Target Organs: Respiratory system Symptoms: Breathing difficulties Symptoms: Breathing difficulties Symptoms: Breathing difficulties Symptoms: Dizziness, Abdominal pain, Diarthoea Target Organs: Central nervous system Symptoms: Dizziness Section 12: Ecological information Toxicity Components: Doramectin: Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 11 µg/l Exposure time: 96 h Method: OECD Test Guideline 203 LC50 (Docordynchus mykiss (rainbow trout)): 5.1 µg/l Exposure time: 96 h Method: OECD Test Guideline 203 LC50 (Daphnia magna (Water flea)): 0.1 µg/l Exposure time: 48 h Method: OECD Test Guideline 202 M-Factor (Chronic aquatic invertebrates Persistence and degradability No data available Bioaccumulative potential Components: Doramectin: Bioa	Version 6.0	Revision Date: 06.07.2024		OS Number: 91220-00014	Date of last issue: 06.04.2024 Date of first issue: 22.10.2019
Toxicity Components: Doramectin: Toxicity to fish E. LC50 (Lepomis macrochirus (Bluegill sunfish)): 11 µg/l Exposure time: 96 h Method: OECD Test Guideline 203 LC50 (Oncorhynchus mykiss (rainbow trout)): 5.1 µg/l Exposure time: 96 h Method: OECD Test Guideline 203 Toxicity to daphnia and other aquatic invertebrates E.C50 (Daphnia magna (Water flea)): 0.1 µg/l Exposure time: 48 h Method: OECD Test Guideline 202 M-Factor (Chronic aquatic r M-Factor (Chronic aquatic r M-Factor (Chronic aquatic r Method: OECD Test Guideline 202 M-Factor (Chronic aquatic r Motiod: OECD Test Guideline 202 Motiod: OECD Test Guideline 203 Motiod: OECD Test Guideline 202 Motiod: OECD Test Guideline 202 Motiod: OECD Test Guideline 203 Motiod: OECD Test Guideline 203 Motiod: OECD Test Guideline 204 Motiod: OECD Test Guideline 205 Mot	Inge	stion	:	Target Organs: C Symptoms: Dizzin Target Organs: E Symptoms: Irritat Target Organs: S Symptoms: Irritat Target Organs: R Symptoms: Breat Target Organs: G Symptoms: Naus Target Organs: C	entral nervous system ness, Headache ye ion kin ion espiratory system hing difficulties tastro-intestinal system ea, Abdominal pain, Diarrhoea entral nervous system
Somments: Doramectin: Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 11 µg/l Exposure time: 96 h Method: OECD Test Guideline 203 LC50 (Oncorhynchus mykiss (rainbow trout)): 5.1 µg/l Exposure time: 96 h Method: OECD Test Guideline 203 Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.1 µg/l Exposure time: 48 h Method: OECD Test Guideline 202 M-Factor (Chronic aquatic : 10,000 Toxicity : Very toxic to aquatic life. Persistence and degradability No data available : Very toxic to aquatic life. Bioaccumulative potential : Species: Lepomis macrochirus (Bluegill sunfish) Bioaccumulation Species: Lepomis macrochirus (Bluegill sunfish) : Species: Lepomis macrochirus (Bluegill sunfish)	Section '	12: Ecological information	on		
Doramectin:Toxicity to fish:LC50 (Lepomis macrochirus (Bluegill sunfish)): 11 µg/l Exposure time: 96 h Method: OECD Test Guideline 203LC50 (Oncorhynchus mykiss (rainbow trout)): 5.1 µg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 0.1 µg/l Exposure time: 48 h Method: OECD Test Guideline 202M-Factor (Chronic aquatic toxicity):Ectoxicology Assessment Acute aquatic toxicity:Acute aquatic toxicity:Very toxic to aquatic life.Persistence and degradability No data availableBioaccumulative potentialComponents: BioaccumulationDoramectin: BioaccumulationStock Cop Test Lepomis macrochirus (Bluegill sunfish) Bicconcentration factor (BCF): 71 Method: OECD Test Guideline 305	Тохі	city			
Toxicity to fish:LC50 (Lepomis macrochirus (Bluegill sunfish)): 11 µg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Oncorhynchus mykiss (rainbow trout)): 5.1 µg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 0.1 µg/l Exposure time: 48 h Method: OECD Test Guideline 202M-Factor (Chronic aquatic toxicity):10,000Ecotoxicology Assessment Acute aquatic toxicity:Very toxic to aquatic life.Persistence and degradability No data available:Very toxic to aquatic life.Bioaccumulative potential:Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305	<u>Com</u>	ponents:			
Exposure time: 96 h Method: OECD Test Guideline 203LC50 (Oncorhynchus mykiss (rainbow trout)): 5.1 µg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebratesEC50 (Daphnia magna (Water flea)): 0.1 µg/l Exposure time: 48 h Method: OECD Test Guideline 202M-Factor (Chronic aquatic toxicity)10,000Ecotoxicology Assessment Acute aquatic toxicity10,000Acute aquatic toxicityvery toxic to aquatic life.Persistence and degradability No data availableVery toxic to aquatic life.Bioaccumulative potentialComponents: Doramectin: BioaccumulationComponents: BioaccumulationSpecies: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305	Dora	amectin:			
Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 0.1 µg/l Exposure time: 48 h Method: OECD Test Guideline 202M-Factor (Chronic aquatic toxicity):10,000Ecotoxicology Assessment Acute aquatic toxicity:Very toxic to aquatic life.Persistence and degradability No data available:Very toxic to aquatic life.Bioaccumulative potential:Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305	Toxi	city to fish	:	Exposure time: 9	6 h
aquatic invertebratesExposure time: 48 h Method: OECD Test Guideline 202M-Factor (Chronic aquatic:10,000toxicity)Ecotoxicology Assessment Acute aquatic toxicity:Acute aquatic toxicity:Very toxic to aquatic life.Persistence and degradability No data availableBioaccumulative potentialComponents: BioaccumulationDoramectin: Bioaccumulation:Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305				Exposure time: 9	6 h
toxicity) Ecotoxicology Assessment Acute aquatic toxicity : Very toxic to aquatic life. Persistence and degradability No data available Bioaccumulative potential Components: Doramectin: Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305			:	Exposure time: 4	8 h
Acute aquatic toxicity:Very toxic to aquatic life.Persistence and degradability No data availableNo data availableBioaccumulative potential			:	10,000	
No data available Bioaccumulative potential Components: Doramectin: Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305			:	Very toxic to aqua	atic life.
Components: Doramectin: Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305		-	ty		
Doramectin: Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305	Bioa	accumulative potential			
Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305	Com	ponents:			
Bioconcentration factor (BCF): 71 Method: OECD Test Guideline 305					
Partition coefficient: n- : log Pow: 4.5	Bioa	ccumulation	:	Bioconcentration	factor (BCF): 71
	Parti	ition coefficient: n-	:	log Pow: 4.5	



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octar	ol/water		pH: 7	
Mobi	lity in soil			
<u>Com</u>	ponents:			
Distri	mectin: bution among environ- al compartments	:	log Koc: 4.94	
Othe	r adverse effects			
Com	ponents:			
Resu	mectin: Its of PBT and vPvB ssment	:	Substance is not (vPvB).	very persistent and very bioaccumulative

Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging		Empty containers should be taken to an approved waste han- dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

UNRTDG		
UN number	:	UN 3082
UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Doramectin)
Transport hazard class(es)	:	9
Packing group	:	III
Labels	:	9
Environmental hazards	:	Ves
IATA-DGR		
UN/ID No.	:	UN 3082
UN proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
		(Doramectin)
Transport hazard class(es)	:	9
Packing group	:	III
Labels		Miscellaneous
Packing instruction (cargo		964
aircraft)	•	
/		004
Packing instruction (passen-	:	964



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ger aircraft) Environmentally hazardou	ıs : yes	
IMDG-Code UN number Proper shipping name	: UN 3082 : ENVIRONMEN N.O.S. (Doramectin)	TALLY HAZARDOUS SUBSTANCE, LIQUID,
Transport hazard class(es Packing group Labels EmS Code Marine pollutant	()	

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazardous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

Section 16: Other information

Further information Sources of key data used to : Internal technical data, data from raw material SDSs, OECD	Revision Date	06.07.2024	
compile the Safety DataeChem Portal search results and European Chemicals AgenSheetcy, http://echa.europa.eu/	Sources of key data used to compile the Safety Data	eChem Portal search results and Europea	



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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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